



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. Of: ANDRE et al.

Serial No.: 10/607,912

Filed: June 27, 2003

For: THIN LAYER OF HAFIUM OXIDE AND DEPOSIT PROCESS

Group: 1762

Confirmation No. 8153

Examiner: Markham, Wesley D.

DOCKET: BREV 13186 DIV

MAIL STOP ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

The Notice of Allowance mailed March 20, 2006 is at hand. Applicants note that the Examiner did not initial and date the PTO-892 filed with the Information Disclosure Statement mailed June 27, 2003. An additional copy of the Information Disclosure Statement is enclosed for the convenience of the Patent Office.

Respectfully submitted,

Norman P. Soloway
Attorney for Applicants
Reg. No. 24,315

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 14, 2006, at Tucson, Arizona.

By Kim Good

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLN. OF: ANDRE ET AL.

FILED: June 27, 2003

FOR: THIN LAYER OF HAFNIUM OXIDE AND DEPOSIT PROCESS

DOCKET: BREV 13186 DIV

MAIL STOP PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The present application is a divisional of U.S. Patent Application Serial No. 09/830,380, filed April 25, 2001. Applicant hereby attaches copies of Form PTO-1449 and Form PTO 892 from the parent application. Copies of the various prior art references listed in the attached Forms PTO-1449 and PTO-892 are not being furnished, since they are available in the parent application. Accordingly, it is respectfully submitted that no copies of these references are believed necessary. The claims in the present application are believed to be patentably distinguished over these references.

This information disclosure statement is being made pursuant to the duty of disclosure imposed by law and formulated in 37 CFR 1.56(A). No representation is made that the information thus disclosed in fact constitutes prior art or that it is the closest prior art, inasmuch as 37 CFR 1.56(A) relies on a materiality concept which depends on subjectivity.

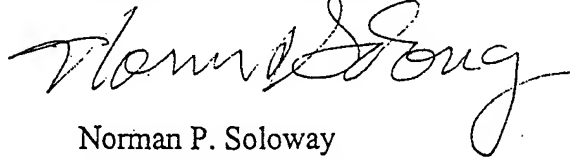
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In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account No. 08-1391.

Respectfully submitted,



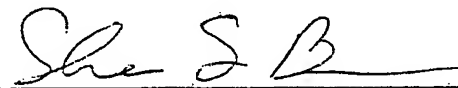
Norman P. Soloway
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Reg. No. 24,315

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I hereby certify that this paper and the papers listed thereon are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above, and is addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of person mailing 
Name of person mailing Shauna Bronson

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Notice of References Cited

JUN 19 2006

Application/Control No.

09/830,380

Applicant(s)/Patent Under
Reexamination
ANDRE ET AL.

Examiner

Tamra L. Dicus

Art Unit

1774

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
✓	A	US-5,399,435	03-1995	Ando et al.	428/428
✓	B	US-5,623,375	04-1997	Floch et al.	359/871
✓	C	US-5,691,044	11-1997	Oyama et al.	313/461
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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	I	US-			
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	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

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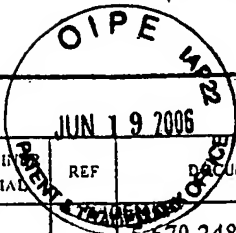
Applicant(s)

ANDRE et al

Filing Date

APRIL 25, 2001

Group Art Unit



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,670,248	09-23-97	LAZAROV et al	428	304.4	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
		0 486 475 A2	03-03-89	EUROPE	C 03 C	17/23		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Influence of Microstructure on Laser Damage Threshold of IBS Coatings" by C. J. Stolz et al SPIE Vol. 2714 XP-002111763, pgs. 351-359
	"Thin Films for Optical Systems" edited by F.R. Flory Ecole Nationale Supérieure de Physique de Marseille, Marseille, France Pgs. 521-549

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

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BREV 1316

Applicant(s)

ANDRE et al

Filing Date

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Group Art Unit

JUN 19 2006

*EXAMINER
INITIAL

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"Optical Coatings Deposited by Reactive Ion Plating" by A.J. Waldorf et al
Applied Optics/October 1, 1993/Vol. 32, No. 28
pgs. 5583-5593

"Optical Coatings for High-Power Neodymium Lasers" by B. Brauns et al
Sov. J. Quantum Electron 18 (10) Oct. 1988, c 1989 American Institute of Physics
pgs. 1286-1290

"Investigation of Optical Damage Mechanisms in Hafnia and Silica Thin Films Using Pairs of Subnanosecond Laser Pulses with Variable Time Delay"
by L.L. Chase, et al
J. Appl. Phys. 71 (3) February 1, 1992/American Institute of Physics
pgs. 1204-1208

"Characterization of Defect Geometries in Multilayer Optical Coatings" by R.J. Tench et al
J. Vac. Sci. Technol. A 12(5), Sep/Oct 1994
1994 American Vacuum Society
pgs. 2808-2813

"Reactive Evaporation of Low-Defect Density Hafnia" by R. Chow et al
Applied Optics/ October 1, 1993/ Vol. 32, No. 28/ pgs. 5567-5574

"Stress and Environmental Shift Characteristics of HfO₂/SiO₂ Multilayer Coatings" by J.F. Anzellotti et al
Proceedings Reprint/SPIE - The International Society for Optical Engineering
Reprinted from 28th Annual Boulder Damage Symposium proceedings "Laser-Induced Damage in Optical Materials: 1996"
October 7-9, 1996, Boulder, Colorado
SPIE Vol. 2966, pgs. 258-264

"Study of the Structure and Properties of Thick Vacuum Condensates of Nickel, Titanium, Tungsten, Aluminium Oxide and Zirconium Dioxide" by B.A. Movchan et al
F metal. metalloved., 28, No. 4, 653-660, 1969
pgs. 83-90

"Nano Absorbing Centers: A Key Point in Laser Damage of Thin Films" by J. Dijon et al
SPIE Vol. 2966, pgs 315-325

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